

VOC AG VIEWS

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VOC AG VIEWS

MILLING AND BAKING QUALITY OF FROSTED WHEAT.

By E. Y. Spencer

Up to the night of August 18th the crop prospect this year were excellent. Conditions had been satisfactory for the development of the crop. The soil-climatic combination was ideal. The heads were filling and the protein of the wheat kernel was maturing.

Western Canadian farmers expected a good yield of wheat of the high quality for which it is noted. The high quality and quantity protein would be in great demand by the world's importers to blend with their weak or poor quality protein wheat. Then on this fateful night a severe frost occurred. The development of the wheat was arrested. At a distance no damage was apparent. However, those familiar with the effect of frost at this early period in the growth of the crop knew that damage would be severe. How could the degree of damage be determined, what effect would this have on the large export market -- these and a number of other questions arose.

To consider some of these problems a meeting was held at the University of Saskatchewan attended by those at the University directly concerned and by the chief chemist of the Board of Grain Commissioners from Winnipeg. As a result of the discussion it was agreed that no extensive survey of the frozen crop would be undertaken by this laboratory. The facilities and resources of the cereal chemistry department at the University were far too limited to carry out a large survey. At the far larger and specially equipped laboratory of the Board of Grain Commissioners in Winnipeg,

milling and baking is continually being carried out on composite samples of wheat that are obtained from every carload of grain passing through Winnipeg. With such sampling facilities available at this central point, it would be easy to determine whether the grading of the wheat crop according to the specifications of the Canada Grain Act as carried out by the inspectors of the Board of Grain Commissioners would accurately reflect the milling and baking qualities of the crop. These results will be discussed later, suffice to say at the moment that the correlation of the grading, milling and baking quality was very good.

That no large scale survey of the crop was undertaken by the cereal chemistry department at the University of Saskatchewan by no means indicates that no investigation on cereal problems are underway. This department with its experimental mill and baking laboratory has always had an active research program. It has been free to take part in collaborative programs as well as carry on investigations of particular interest to this province. Some of the earlier collaborative work resulted in the establishment of uniform and adequate tests for evaluating the milling and baking properties of our hard red spring wheat. These tests are used each year to evaluate the quality of the new varieties of wheat produced by the Field Husbandry department. This is part of the active plant breeding program to develop superior

varieties of wheat both from an agronomical, and milling -- baking point of view. Both properties are essential. The farmer is particularly interested in good agronomical properties--that is, qualities of drouth and disease resistance, strongstrew, high yield and early maturing, to mention a few. The milling-baking properties are equally important since 65 to 70 per cent of Canada's wheat is exported. Its high quality is prized by the world's wheat importers for the reason already cited. This quality has been rigidly maintained so that Canadian wheat has an enviable reputation which can be relied upon.

In addition to the evaluation of new local varieties, the cereal laboratory participates in the final testing of new varieties which have undergone at least three years extensive experiments across Canada. This is a test done in collaboration with other cereal chemists in Canada, United States and Great Britain. From these results the decision is made to recommend or reject a new variety for registration. By this extensive testing the registration of licensing of only superior varieties is assured.

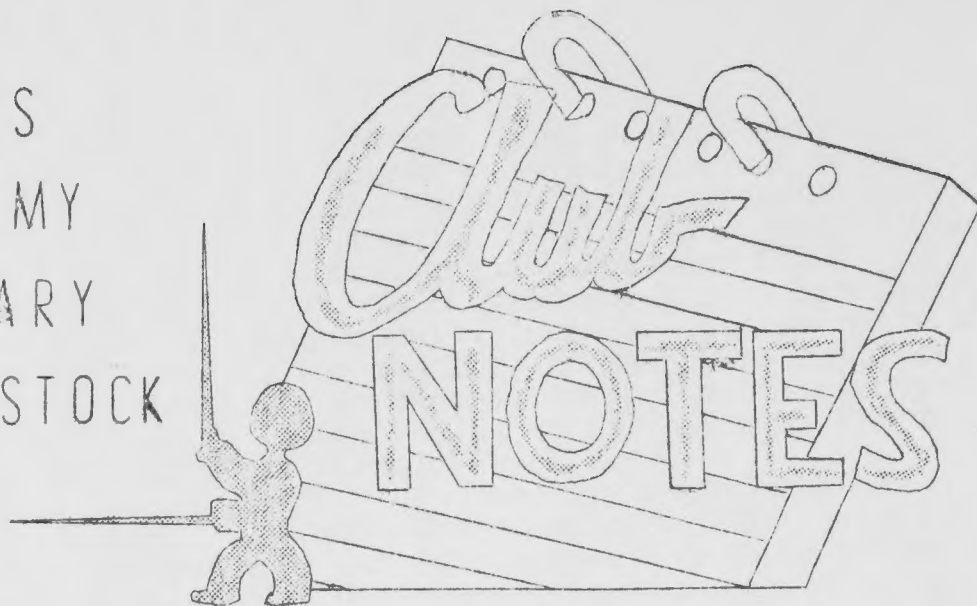
Among several projects of the cereal chemistry laboratory this year was one concerned with the evaluation of a group of wheat samples from a field near Prince Albert. The farmer who supplied these samples had been able by the use of a self-propelled combine to separate the wheat into three portions from one field; that from the hill top, side of the hills and the valley. These frost-damaged samples graded four, five, and five respectively. These together with a sample of number one Northern, from last year were milled and baked. The yield of flour

was highest from the number one Northern, that from the hill top next, then from the hill side and the valley wheat yielding the least. The time required to mill the wheat increased in the reverse order of flour yield, that is the lowest yield of flour according to the exact procedure. Loaf volume (an indication of quality) was greatest for the loaves baked from the flour of the number one Northern wheat of last year-- and decreased in the same order as the flour yield. Thus the greatest damage had been done to the crop in the valley where the frost damage was the most severe, and least on the hill tops.

Another project was concerned with the correlation of protein quantity and grade. In many instances the quantity of protein in the lower grades was higher than in the high grades and this has led to some misunderstanding. It should be remembered that there must be protein quality as well as quantity. In the case of much frozen wheat, the quantity factor was satisfactory but the quality fell short since the frost of August 16, stopped the protein from maturing. Thus the good protein quality was damaged and the degree varied depending on the stage of maturity of the wheat and the intensity of the frost. These low grades are therefore not acceptable for milling and baking. The miller gets a lower yield and poorer grade of flour under more severe milling conditions. The baker finds the dough more difficult to handle and produces a less satisfactory loaf. Where blending with weak flours is required, as in most of the imported wheat, the lower quality wheat must be excluded from the higher grades to maintain Canada's quality standards.

Although the lower grades are

★ MECHANICS
★ AGRONOMY
★ LITERARY
★ LIVESTOCK



MECHANICS

Last week on Thursday afternoon the Irrigation group toured the greenhouse to observe the effects of 2-4-D accumulation on soil. They also attended a discussion given in the Imperial Oil short-course in the Engineering Building motors laboratory which dealt with ignition tests etc.

The Diesel study group have completed the study of the agriculture diesel tractors and now are working on an economic survey of the merits of owning a diesel tractor versus owning a gas tractor. For the Little Royal, it has been decided to prepare a mimeographed booklet of their activities during the year.

The Machine Study and Welding group made a tour of the Inter Continental Pork Packers which proved very interesting.

The Building group is continuing its project for the Little Royal- a busset machine shed. The blue prints have been completed and a special effort will be made from now on to complete the model.

The other groups are continuing their project too and preparations are underway to make a successful showin' at the Little Royal.

AGRONOMY

In spite of mumps, scarlet fever, flu and exams the Agronomy club has been rolling. Business as usual is our motto.

Kent arranged for Dr. Dion to come to the school to give a talk, and show some slides, on the trip which he took to Bolivia. Dr. Dion had been sent by one of the branches of the United Nations. He gave an extremely interesting account of agriculture in South America, particularly in Bolivia. Luckily he missed being shot in one of their monthly revolutions.

We have started one new project and two others are nearing completion and showing very good results. Stan Nowakowski's project showing the effects of accumulations of 2-4-D in the soil is showing up well. They put the 2-4-D on in concentrations of 1 pound; 2000 pounds. Everything over 5lbs. is showing damage.

Frank Blake's project, an emergence test for wheat, barley and forage crops, has shown good results. The wheat and barley were infected with root rot spores, and showed greatly reduced germination and emergence. The forage seeds were treated

(club notes con't.)

with mercuric dusts. Those with recommended application showed good emergence, those with dusts too heavy or too light showed poor germination.

Alex Olson's project is designed to show the effect of depth of seeding on sound and frozen wheat. The wheat is divided into four groups; sound; bran frosted; deep frosted; and shriveled seed. These will all be grown at depth of from 1 - 3 inches.

We intend to show all these projects in displays at the Little Royal. They should make an impressive showing.

SOCIAL

It looks as though the mumps, flu' and scarlet fever have put a damper on the social functions of the School for awhile. We could have had a dance on Saturday 17, however, on putting the idea to the class, it seemed to meet with disapproval, therefore no attempt was made to go further.

The next social function will be the "Little Royal Variety Show" on March 7. There will be two performances - one at 7 P. M. and another at 9 P. M. There is a wide variety of talent included in the show. The performance itself will represent a lot of hard work and perseverance by those participating, so let's give them our support.

On March 8 at 9 P. M., the Little Royal Dance at the Club 400 will bring to a climax the Sixth Annual Little Royal. Within the next week or two tickets will be on sale for the Dance. Remember fellows, the more that attend the dance, the cheaper the tickets will be. It will be a big dance and a lot of fun, so let's all be there and make it a success.

LITERARY

During the last week, the elimination in the tryouts for the A. S. A. Field Day public speaking

contest, took place. Rueben Ziolkowski and Stanley Nowakowski are the two who will represent the School. The Field Day will be held on Thursday, February 22.

The Little Royal play is shaping up well. There is also going to be a meeting on Monday, February 19, to choose a play for College Frites and as an additional play for the Little Royal.

It was very unfortunate that the Choral group's radio program for February 8, had to be postponed until February 15, because of the untimely outbreak of flu' and mumps. The program was recorded at CFQC on February 14, but on the night of the 15th, there appeared to be a flaw in the tape and the program could not be broadcast. It is planned to have the program on February 22, providing, of course, that no other unexpected circumstances arise.

LIVESTOCK

On the 1st of February, the Livestock Club met in the Livestock pavillion where Jack Hill gave us a demonstration on how to dress a beef animal for the show ring. He also gave the boys numerous pointers on showmanship. The afternoon was completed by working on the building projects.

The following week, we met in the Auditorium and saw a picture show entitled "Thoroughbreds". After that we went out to Intereon continental Pork Packers where we saw many interesting operations concerning the processing of meat. This last week we were given a demonstration on fitting horses for the show ring. Some of the fellows also practised rolling the manes after the demonstration.

A group of fellows are going over on Monday night to finish the building projects. Preparations for the Little Royal are going ahead and it is planned to have all those showing Livestock dressed in white overalls and white shirts. By the

Little Royal (cont'd)

Livestock Pavillion on the afternoon of March 8. This is where the boys show us their skills in handling sheep, swine, horses and cattle. The animals have been well groomed and competition is really keen. This is something that no farmer would want to miss.

All the prizes and trophies will be presented to the winners of the various competitions in the Livestock Pavillion on March 8.

The climax of the two day show is on the evening of March 8 when the Little Royal dance is staged at the Club 400. Believe me, this is a dance worth while attending.

Be sure and join us during these two exciting days.

...

All the parents of the students of the School of Agriculture are cordially invited to attend our show.

This is your personal invitation to attend our sixth annual Little Royal on March 7 & 8.

Stuart McKenzie,
Little Royal Director.

Livestock (cont'd)

way fellows, you can go over and wash your animals any time now, providing they are allowed to dry before being taken back to the barns. As far as the Little Royal show goes, put everything you've got into it, fellows, and may the best man win.

Frosted Wheat (cont'd)

Although the lower grades are not suitable for the milling and baking trade, the feed value in most instances is satisfactory for livestock.

The milling and baking results from the cereal chemistry laboratory

agree well with those of the Board of Grain Commissioners laboratory. The former laboratory at the University of Saskatchewan will continue to carry on independent and collaborative work in connection with cereals and other crops in order to assist agriculture in this province to maintain quality and quantity production. Visitors are always welcome to see the laboratory in the Chemistry building at the University where the work is carried out.

" ? "

If you had the choice of two women to wed,

(Though of course the idea is quite absurd)

And the first from her heels to her dainty head

Was charming in every sense of the word:

And yet in the past (I grieve to state)

She never had been exactly "straight".

And the second- she was beyond all cavil,

A model of virtue, I must confess;
And yet, alas! she was dull as the devil,

And rather a dowd in the way of dress;

Though what she was lacking in wit and beauty

She more than made up for in "sense of duty"

Now, suppose you must wed, and make no blunder,

And either would love you, and let you win her -

Which of the two would you choose, I wonder,

The solid saint or the sparkling sinner?

Marriage is like a prizefight-- the preliminaries are generally better than the main event.

LITTLE ROYAL

Everyone has heard of the Toronto Royal Winter Fair; in fact, many of us have actually seen the show. It is one of the largest events staged on the North American Continent and is known the world over.

If you have heard of the Toronto Royal, then surely you know something about the annual Little Royal Exhibition put on by the students of the School of Agriculture. Perhaps the information which you have on the Little Royal is not sufficient to actually impress on you what it really is. To the students of the School of Agriculture, it means the culmination of the year's extra-curricular activities. In short, it is the Show Window of the School of Agriculture.

This year the biggest and best Little Royal ever to be presented will be staged on March 7 and 8. It is the sixth annual show and this year the combined facilities of the Engineering Building, Livestock Pavilion and the School of Agriculture Building are being used to house the show.

Almost every student in the school takes part in the competitions at the Little Royal and a great number of students help in the planning and organization of the show. Thus we gain a great deal not only in showmanship and judging skills but also in the organization of an exhibition.

The show consists of competitions in Livestock showmanship, Grain Showmanship, poultry judging

and egg grading, and various other classes in the Mechanics and Literary divisions. There is also a competition for our Vocational Clubs consisting of Educational display make-ups. Trophies are presented to the winners in each class and the competitions are extremely keen.

A great deal of effort is expended for weeks before the show. The boys start grooming their animals soon after Christmas and the cleaning of grain samples is a common sight in the dormitory. Work on Educational displays is planned well ahead of time and the clubs produce displays of very high quality.

On March 7, the first day of the show, grain samples will be judged and the contestants will judge the classes in the poultry division. The owners of the winning grain samples will be required to judge cereals to compete for the championship in that division. The winning grain samples from the Manitoba Fair will then compete against our winning samples. The educational displays and the classes in the Literary and Mechanics division will also be judged on the first day.

On the evening of March 7 a variety show will be staged in the School Auditorium and the School of Agriculture Residence will hold "open house".

The big event of the show, the Livestock Showmanship competition, will take place in the

MARCH 7-8

EDITOR'S PAGE



MY SPORTSMANSHIP?

Sportsmanship is defined in the dictionary as skill in athletics. But, perhaps, a broader conception of the word which would include everyday living as well as sports, could be worded the ability to play ball with your fellow man. This conception may seem too inclusive to the average lad, a good sport suggests more than just a hockey or baseball star. If the latter were practised in preference to merely the athletic conception mankind might be closer to peace than it is at the present time.

How do we practise teamwork in everyday dealings, you ask? Undoubtedly, it is difficult when very few others do so, but in time perseverance will be rewarded. Men will begin to respond to "square" deeds with "square" deeds. Words and above all, actions which prove you will meet anyone halfway will in time be recognized and rewarded.

Rewarded? But is there not a return on the investment of being a sportsman. There is the personal payment - the inside feeling that one is practising "do unto thy neighbor as you would have him do unto you". In addition, there are words and actions in return, for life is not like a mirror?

But how does all this affect students in the School of Agriculture? It is quite evident that

one could not find a better place than to play on the same line as the fellow across the hall. Doing this, we are then ready to go home and do the same with the fellow across the road and then with the fellow across the boundary or the water. Does not this spirit prevail here? Have we not a high scoring team?

With an atmosphere of mutual co-operation, a group such as ours knows no bounds in its accomplishments. With such a team to fight with, any opposition which may present itself, may be overcome. If, anytime, you feel lost or downhearted because of a seemingly unbeatable obstacle, remember, there is a strong team playing behind you, and do not forget that you are also backing another player in the Game.

For when the one Great Scorer comes
To write against your name
He writes not whether you won or lost
But how you played the Game.

AUNT ELIZA

In the Drinking-well

Which the plumber built her,
Aunt Eliza fell....

.....We must buy a filter.

This road isn't passable
Not even jackassable.

SPORTS



Hockey:

Since the last report the hockey teams have really been busy and despite the shortage of players due to sickness have done very well.

The Voc Ags (1) team has played two games. In the first game against Education they kept a good lead all the way, the final score was Voc Ags 6, Ed. 4.

The star players for our team were Ted Everett with 3 goals, Curt. Boe with 2, and Bernie Linnell with 1.

In the second game against S. T. M. it was a close exciting game all the way. The score was tied 4-all, with five minutes to go when S. T. M. scored a lucky goal winning the game. Final score: S. T. M. 5, Voc Ags 4.

Ted Everett was again the high scorer with 2 goals, Curt Boe scored 1, and Slim Hopkins scored 1.

The Voc Ags (2) team has played four games, winning 2 and losing 2.

In the first game against St. Andrews the Voc Ag team won by a wide margin of 6 to 2.

For the Voc Ag team Gary McKeckney scored 2, Doug Bryson scored 2, George Schroeder--2, and Carl Mattson--1.

In the second game vs. Eng. (#), the Eng. won 5-2. C. Mattson scored 1 and Doug Bryson scored 1.

The third game again vs. St. Andrews despite the fact that about 1/3 of the team was on the sick list, the Voc Ags won 5-2.

For our team G. Schroeder scored 2, Johnson scored 2, and G. Wick-enheiser 1.

Last Monday, Feb. 19th, the Voc Ags played against the undefeated Ag. Grads. and lost by the close score of 1-2. G. McKeckney scored the lone goal for the Voc Ags and it was a good game right to the end.

For all the games a real good cheering section showed up and it certainly helped. Thanks a lot fellows!

Basketball:

The basketball team has finished the schedule and although not many games were won except by default they were in there trying all the way. As one of the players put it, "Although we did not do much this year we'll give 'em"H---" next year.

Bowling:

The bowling schedule started again last Saturday after missing a week because so many of the fellows were in the Sick Bay.

Bowlers are asked to fill out their score sheets properly before handing them in, since it is difficult to figure the team scores if they are not.

The standings are now:

King Pins	35
Wild Cats	34
Speed Balls	33
F's & B's	32
Hicks	29

The organization has been assured of the cooperation of our best authorities on weed control, soil conservation and cereal and forage crops. The Director of the Agricultural Representative Service has intimated that his field man will cooperate insofar as circumstances permit. As an organization with the object improving field husbandry practices in the province, the Association should fill an important place in our agriculture. The Association needs more young members who are willing to spend a little time on projects designed to demonstrate the best methods in the care of our soil and the production of our crops. A successful demonstration on your own farm may do much in guiding others toward better farming and better living.



HAPPY
BIRTHDAY

Sports and.

Bob Cats.....	25
The 4 Aces.....	24
Badgers.....	24
Pin Topplers.....	22
Temperance.....	13
Deadbeats.....	17
Hayseeds.....	17
Lilly Cats.....	15
Prairie Bombers.....	15
Pill Founders.....	15
Challengers.....	12
Toxes.....	10
Boozers.....	9
Grey Hounds.....	9

TOBACCO

Tobacco is a dirty word:

I like it.

It satisfies no normal need:

I like it.

It makes you thin, it makes you
lean,

It takes the hair right off your
head,

It's the worst darn stuff I've
ever seen:

I like it.

Ken Wilson.....	Feb. 10
Harvey Spagrud.....	Feb. 10
Gilbert Gill.....	Feb. 18
Roger Carlton.....	Feb. 18
Don Abbott.....	Feb. 22
Don Ulrich.....	Feb. 28
Eller A. d.....	Feb. 28
Joe Jacobs.....	Feb. 28
Ken Wilson.....	Feb. 28



M.D: H-H-H-H, I see the boys are
pro resting nicely.

THE SASKATCHEWAN FIELD HUSBANDRY ASSOCIATION

by H. Gerrie

The Saskatchewan Field Husbandry Association was organized on March 8, 1921--just 30 years ago next Thursday. Professor Manley Champlin who was then the newly appointed head of the Field Husbandry Department was instrumental in bringing the association into being, and acted in the capacity of secretary-treasurer of the organization from the time of its inception until last September. Professor Champlin is now on leave of absence pending his retirement.

The most important service the Association has given, is that of distributing seed grain in small quantities to its members. Each member is entitled to two choices. Each choice consists of two pounds of seed of a cereal crop or one pound of a forage crop variety. The Field Husbandry Department of the University has contributed the seed so distributed. As new varieties were developed, they were made available to members of the Association. There has been little or no change in the policy of distributing seeds during the time the Association has operated. The annual membership fee has always been one dollar.

In addition to the distribution of seeds, a mailing list has been kept in the office of the Field Husbandry Department and publications of special interest to members have been made available to them. A field day has been held at the University during the week of the Saskatoon Exhibition.

The annual meeting of the Association has been held at the University during Farm and Home Week in January. This has been featured by a business session in the morning, one or two good addresses in the afternoon dealing

with some timely topic, and a banquet at the Bessborough in the evening.

Following the retirement of the past secretary on September 30 last, a questionnaire was mailed out to members with the object of getting suggestions that would be helpful in planning the future program of the Association. Many members indicated their willingness to undertake cultural experiments, fertilizer tests, weed control experiments and other such projects that should yield specific advantages or useful information. This idea was followed up by including in the 1951 program a number of such projects, in addition to making small samples of seeds available to members as provided for in the past. Copies of the Program of Experimental Work are available at the office of the Field Husbandry Department, 208 Field Husbandry Building.

As the future policy of the organization is somewhat unsettled at present, it would be untimely to make any statement of a conclusive nature at this time regarding it. The suitability of the two-pound sample of cereal crop seeds for increase purposes has been questioned, and the cost of bagging these samples and sending them out by mail is a further consideration. At the last meeting of the executive a committee was appointed to redraft the constitution. This will probably be presented for confirmation at the next annual meeting. It is anticipated that the program will be made more flexible and that it will include projects better adapted to the varying conditions throughout the province. It is hoped that more encouragement maybe given to those who undertake the projects and more recognition to those who successfully complete them.



JORAM AMBLE

During a goose hunt, two Englishmen were shooting from blinds situated close together.

Suddenly, a redindignant face showed over the top of one blind and its owner shouted angrily:

"Curse you sir. You almost shot my wife."

"Did I," asked the other aghast, "I'm terribly sorry really. Tell you what, you can have a shot at mine."

Our Rusben Ziolkowski and his cello appeared on the ABC Amateur Hour last week in the Fancies Bld. The judges placed him at the top of the class, so Rube came home with first prize.

Youth is a wonderful thing. What a crime to waste it on children.

The roving reporter, Mr. Munro is again unconfined. The scarlet fever has seemingly made no changes to Art. He reports he had to leave Dave Thomson down at City Hospital with mumps.

"Does that Mrs. Gaffer talk much?"

"Does she? You ought to have seen her when she was a young girl. She then she was a real beauty. Her vacation."

This year the Field Day promises to be an interesting and educational event. Team competition can be expected since the A. R. C. are planning to win their judging and since the V. C. A. will not be in the Tropics this year.

Judging is expected to be given to both first and second years.

Sports are being prepared, for all the "Big Boys" in the school have been here in the Live Stock Pavilion for several days. A new 6-man event in curling was run off to pick the School team to compete - they were Bill Rosker and Ron Lewis.

Prof. - "Every time I bath some- one seems to be smiling."

Prof. - "Have you ever tried a new clever?"

Backett and Birchall are returning to the field under a highly known biologist. They caught a butterfly, a centipede, a beetle and a grasshopper. Using the grasshopper as a bait, the beetles were, the butterfly was, and the centipede's body, they had assembled an unusual insect.

"We were in the field," they announced. "What variety of a butterfly it, sir?"

Dorm "amble" could.

After examining it with great solemnity, Mr. Stilborn asked "Did you notice whether it hummed when you caught it?"

"Yes, sir," they answered smugly. "Well," smiled Art, "this is a humbug."

Some of the fellows, while down at Modern Press the other day, ran across Eldon Anderson, a last year's Grad., with his feet propped up on a private desk. Eldon is now the Agriculture Reporter of the Western Producer.

The first step on the road to victory was taken when Al Smith and Stan Nowakowski won the Field Day debate against Walter Dorle and Harvey Domarest of the College. The topic was "Resolved that the importation of American Athletes into Canada is detrimental." Our fellows successfully upheld the negative.

Money may talk but it seldom gives itself away.

Sign in a cafe:

Our silver teacup has no medicinal value and is not to be taken after meals.

"Will the scar show, Doctor," asked the young lady. "That's entirely up to you," replied the doctor.

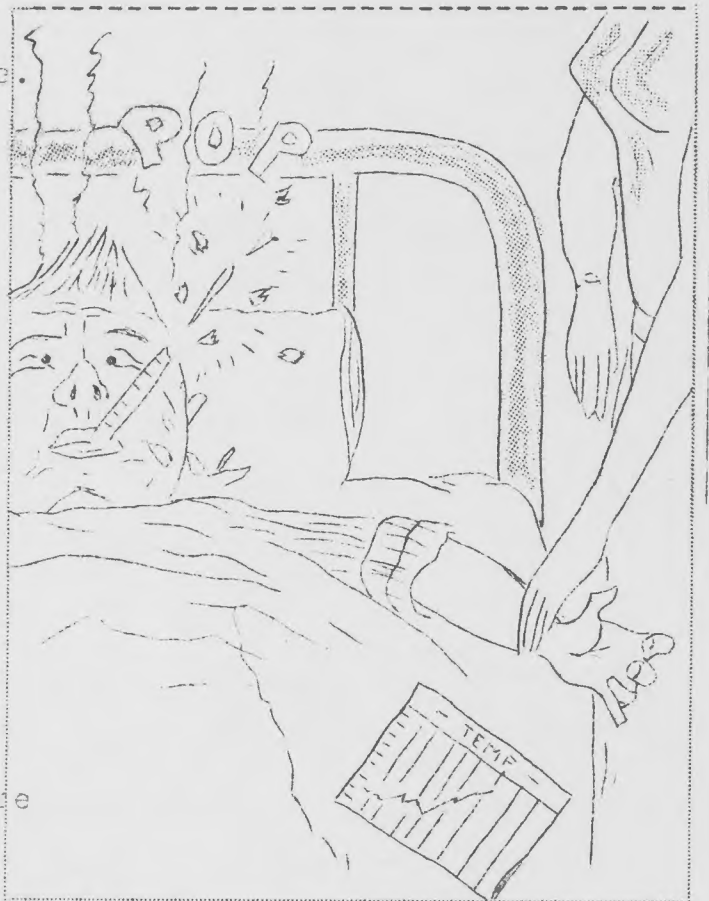
Since the fall elections several new members have been added to the Co-op Board of Directors. The new men behind the counter are Don Eley, Irvin Griffin and Joe Dorrance.

A Scotsman was strolling along the quay one day, when his dog stopped beside a basketfull of live lobsters.

Instantly one of the lobsters snapped its claws on to the dog's tail and the surprised collie dashed off down the street, yelping with pain.

The fisherman turned to the Scotsman and bawled; "Hey, mon, whistle to yer dog".

"Hoot, mon, returned the other you whistle to yer blurry lobster"



FLASH

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WRITING EDITOR Bob Blackely

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